Attorney Docket No. 81788.0250 Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A dynamic random access memory (DRAM) having a refresh-control function under control by an internal refresh-control signal comprising:

a cell array having a plurality of DRAM cells divided into a plurality of blocks, the DRAM cells being driven through word lines for data transfer with bit lines:

a decoder to select word lines and bit lines connected to the cell array;

a sense amplifier to amplify data on the bit lines; and

a refresh controller to limit refresh to the cell array so that at least one externally-accessed block cell among the blocks is refreshed[[.]];

wherein the refresh controller comprises:

a refresh counter to generate an internal address signal, the address being increased for each refresh to the cell array;

a register, provided per block of the cell array, the register storing information indicating whether each block has been accessed;

a refresh limiter to halt refresh to each block that has not been accessed; and

a refresh-restriction releasing section that is data programmable for releasing the refresh limiter from refresh limit to the cell array.

2. (Canceled)

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- 3. (Currently Amended) The DRAM according to claim 2 1, wherein the register stores information indicating whether there is a write access to each block.
- 4. (Currently Amended) The DRAM according to claim 2 1 further comprising an external rest terminal through which the information stored in the register is initialized per block of the cell array.
- 5. (Original) The DRAM according to claim 21 further comprising a reset circuit to initialize the information stored in the register.
- 6. (Canceled)
- 7. (Currently Amended) The DRAM according to claim 6 1, wherein the refresh-restriction releasing section includes a fuse circuit.
- 8. (Currently Amended) The DRAM according to claim 6 1, wherein the refresh-restriction releasing section includes a bonding option.
- 9. (Original) The DRAM according to claim 6 1 further comprising an access detector to detect an external access to the cell array, the refresh-restriction releasing section generating a first operation-halt signal to deactivate the access detector to release the cell array from refresh limit.
- 10. (Original) The DRAM according to claim 9, wherein the refresh-restriction releasing section generates a second operation-halt signal to deactivate the refresh limiter to release the cell array from refresh limit.

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- 11. (Original) The DRAM according to claim 10, wherein the refreshrestriction releasing section generates a third operation-halt signal to deactivate the
 register, thus deactivating all of the access detector, the refresh limiter and the
 register to release the cell array from refresh limit.
- 12. (Original) The DRAM according to claim 9, wherein the refresh-restriction releasing section generates only the first operation-halt signal to the access detector while the refresh limiter is active, with the register being set at non-active, to release the cell array from refresh limit.
- 13. (Original) The DRAM according to claim 6 1, wherein the refreshrestriction releasing section generates a second operation-halt signal to the refresh
 limiter for deactivating the refresh limiter limiter, to release the cell array from
 refresh limit.

14-17. (Canceled)

- 18. (Original) A dynamic random access memory (DRAM) having a refresh-control function under control by an internal refresh-control signal comprising:
- a cell array having a plurality of DRAM cells divided into a plurality of blocks, the DRAM cells being driven through word lines for data transfer with bit lines:
 - a decoder to select word lines and bit lines;
 - a sense amplifier to amplify data on the bit lines;

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a refresh counter to generate an internal address signal, the address being increased for each refresh to the cell array;

a register, provided per block of the cell array, the register storing information indicating whether each block has been accessed;

a refresh limiter to halt refresh to each block that has not been accessed; and a refresh-restriction releasing section that is data programmable for releasing the refresh limiter from refresh limit to the cell array.

- 19. (Original) The DRAM according to claim 18, wherein the refreshrestriction releasing section includes a fuse circuit.
- 20. (Original) The DRAM according to claim 18, wherein the refreshrestriction releasing section includes a bonding option.